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SECRET

R 102232Z AUG 68
FM WPIC WABKDC
TO RUEOJFA/DIA (DIAXX-2)
RUEOJFA/JCS (JWC)
RUEFHIA/NO USAF FOR AFNICAD & AFRDRP
RUSSANA/BAC (DIR)
RUWMDA/S BRW (D31)
BT

13 AUG 68 22 49Z

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S E C R E T [] CITE WPIC 4357.

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SUBJECT: EVALUATION OF GIANT SCALE MISSION S-241, FLOWN 25 JULY 1968

1. QUALITY SUMMARY: THIS MISSION PROVIDES IMAGERY COMPARABLE TO THE LATEST GIANT SCALE MISSIONS. THE P.I. SUITABILITY IS CONSIDERED TO BE FROM POOR-TO-GOOD. THE INTERPRETATION SUITABILITY OF TWO OF THE MAJOR TARGETS WAS GOOD. HAZE AND ATMOSPHERICS CAUSED THE POOR RATINGS. GROUND RESOLUTIONS ARE EMPIRICAL ESTIMATES BASED ON EVALUATIONS OF SIMILAR SENSORS AND IMPLY A BAR AND A SPACE. A

THE FOLLOWING RESOLUTION ESTIMATES WERE MADE ON THE ORIGINAL NEGATIVE FROM CLOUD-FREE IMAGERY AT OR NEAR NADIR.

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A. LEFT TECHNICAL OBJECTIVE CAMERA []

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B. RIGHT TECHNICAL OBJECTIVE CAMERA
C. LEFT OPERATIONAL OBJECTIVE CAMERA
D. RIGHT OPERATIONAL OBJECTIVE CAMERA

2. CLOUDS OBSCURE OR DEGRADE 80 PERCENT OF THE ENTIRE MISSION.
3. THE MATERIAL WAS PROCESSED AT []. THE MISSION EMPLOYED THE USUAL SENSORS. THE ONLY MATERIALS EVALUATED ARE THE ORIGINAL NEGATIVES FROM THE OPERATIONAL AND TECHNICAL OBJECTIVE CAMERAS. THE TERRAIN OBJECTIVE CAMERA MATERIAL WAS USED TO DETERMINE AREAS OF 80 PERCENT CLOUD-FREE PHOTOGRAPHY.
4. EVALUATION OF THE TECHNICAL OBJECTIVE MATERIAL:

A. COMMENTS APPLICABLE TO BOTH CAMERAS:

- (1) APPROXIMATELY 80 PERCENT OF THE PHOTOGRAPHY WAS ACQUIRED ABOVE 30 DEGREES OBLIQUITY.
- (2) MINUS DENSITY STREAKS ASSOCIATED WITH THE PLATEN CONFIGURATION AND RANDOM MINUS DENSITY STREAKS PARALLEL TO THE MAJOR AXIS OF THE FILM ARE PRESENT THROUGHOUT THE MISSION.
- (3) FOG CAUSED BY STATIC DISCHARGE CAN BE DETECTED ALONG BOTH EDGES OF THE NEGATIVE.
- (4) SANDING IS PRESENT THROUGHOUT THE MISSION.
- (5) SMEAR OR DOUBLE IMAGERY IS PRESENT ON HIGH OBLIQUE

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FRAMES.

(6) THE DENSITY AND CONTRAST IS GENERALLY MEDIUM. DENSITY VARIES FROM MEDIUM TO HEAVY. CONTRAST VARIES FROM LOW-TO-MEDIUM.

B. LEFT TECHNICAL OBJECTIVE CAMERA (AL), SN 64-25:

- (1) EMULSION LIFTS ARE PRESENT ON THE LAST THREE FRAMES OF THE MISSION.
- (2) CAMERA OFF/ONS ARE LOCATED BETWEEN THE FOLLOWING FRAMES: 755/756, 757/758, 1049/1050, AND 1364/1365.
- (3) THE EVENTS COUNTER HAS A PLUS 44 BIAS WITH THE TITLED FRAME NUMBER.
- (4) LAST TITLED FRAME: 1365.

C. RIGHT TECHNICAL OBJECTIVE CAMERA (AR), SN 64-22:

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DISTRIBUTION		
CY	OFFICE	PI
1	FILE	
2	CABLE SEC.	25X1
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	PSG/OC	25X1
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	REPRO	
	AID	
	IEG	
	PROD	
	SCIEN	
	WEST	
	EAST	
	M&S	
	PGM	
	IAS	
	DIA-XX4	
	SPAD	
	DIA-AP	
		25X1
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ADVANCE CY
SANITIZED
WITH TEXT

GROUP 1
Excluded from automatic
downgrading and
declassification

-2-

(1) TWO PLUS DENSITY STREAKS ARE PRESENT INTERMITTENTLY THROUGHOUT THE MISSION. ONE IS LOCATED 2.0 INCHES FROM THE NON-TITLED EDGE.

(2) SMEAR IS DETECTABLE IN THE BEGINNING OF THE MISSION ON MOST FRAMES, INDEPENDENT OF THE CAMERA POINTING ANGLE.

(3) A MYLAR TAPE SPLICE IS LOCATED BETWEEN FRAMES 693/694.

(4) CAMERA OFF/ONS ARE LOCATED BETWEEN THE FOLLOWING FRAMES:

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736/737, 734/735, 1028/1029, 1359/1343, AND 1723/1721.

(5) THE EVENTS COUNTER HAS A PLUS 38 BIAS WITH THE TITLED FRAME NUMBER.

(6) LAST TITLED FRAME: 1743.

5. ANALYSIS OF THE OPERATIONAL OBJECTIVE MATERIAL:

A. COMMENTS APPLICABLE TO BOTH CAMERAS:

(1) THE DENSITY AND CONTRAST ARE MEDIUM, WHERE NOT DEGRADED BY WEATHER.

(2) THE TIME TRACK DOTS ARE IMAGED INSIDE THE FORMAT AREA. THEY BEGIN 2.6 INCH AFTER START OF SCAN AND EXTEND 2.3 INCH BEYOND THE END OF SCAN.

(3) RAIL SCRATCHES ARE PRESENT ALONG BOTH EDGES THROUGHOUT.

(4) THE CLOCK IN THE DATA BLOCK IS SKEWED SO THAT THE MINUTE LINES ARE NOT VISIBLE ALONG THE RIGHT SIDE OF THE CLOCK.

(5) TITLE TRANSFER IS PRESENT INTERMITTENTLY THROUGHOUT THE MISSION.

(6) A MINUS DENSITY STREAK IS PRESENT APPROXIMATELY 1.0 INCH FROM THE TIME TRACK EDGE ON THE NEGATIVES FROM BOTH CAMERAS.

B. LEFT OPERATIONAL OBJECTIVE CAMERA (C/L) SN 4B-27

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(1) THE TITLED SIDE OF THE FORMAT NEAR THE BEGINNING OF SCAN HAS A RAGGED APPEARANCE.

(2) SPLICES ARE LOCATED BETWEEN FRAMES 675/681, 1025/1021, 1351/1332, 1332/1361, AND 1709/1712.

(3) CAMERA OFF/ONS OCCUR BETWEEN FRAMES 439/443 AND 1323/1329.

(4) THE LAST TITLED FRAME IS 1331. THERE IS A BIAS OF ONE BETWEEN THE TITLED FRAMES AND EVENT FRAME COUNTER.

C. RIGHT OPERATIONAL OBJECTIVE CAMERA (C/R) SN 4B-32:

(1) THE TIME TRACK IS NOT IMAGED ON FRAMES 1 TO 52 AND 1345 TO 1351.

(2) PROCESSING SPLICES ARE LOCATED BETWEEN FRAMES 343/341, 639/631, 681/682, 792/793, 1025/1021, 1029/1032, 1332/1331, 1377/1373, 1709/1701, AND 1719/1723. A MANUFACTURING SPLICE IS PRESENT THROUGH FRAME 715.

(3) CAMERA OFF/ONS OCCUR BETWEEN FRAMES 445/443 AND 1344/1345.

(4) THE LAST TITLED FRAME IS 1331.

GP-1

S E C R E T [REDACTED]

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END OF MESSAGE